



Artificial Intelligence in Human Resource Management: A Systematic Literature Review and Human-Centered Framework

Dr. M. Hema Sundari¹, Matheshkanna L², Mohammed Riswan R³, Muthuraj V⁴, Mohana vasan T G⁵, Moureiya vithu G S⁶

¹Assistant Professor, Department of Management Studies, SRM Valliammai Engineering College, Kattankulathur, Tamil Nadu, India.

^{2,3,4,5}MBA, SRM Valliammai Engineering College, Kattankulathur, Tamil Nadu, India.

Email **ID:** matheshkannan2111@gmail.com², rizwan192002@gmail.com³, muthurajganesan2003@gmail.com⁴, mohanavasan183@gmail.com⁵, moureiyasivakumar@gmail.com⁶

Abstract

Artificial intelligence (AI) is transforming human resource management (HRM), particularly in areas such as recruitment, performance evaluation, employee development, and job satisfaction. This systematic literature review employs the PRISMA method to synthesise findings from 78 peer-reviewed articles published between 2018 and 2025. AI is making recruitment more efficient, supporting personalized learning, and improving workplace analytics. Still, there are ongoing concerns about transparency, fairness, data privacy, and employee trust. Thematic analysis points to four main trends: better recruitment, more tailored learning, performance evaluations supported by algorithms, and higher employee engagement. While there has been progress, research shows that ethical and governance frameworks are still lacking, especially for long-term employee welfare and sustainable HR management. This study suggests a human-centered approach that balances technical efficiency with inclusivity, equity, and sustainability. The review aims to help both academics and managers by outlining current challenges, identifying gaps, and suggesting directions for future research.

Keywords: Artificial Intelligence, Human Resource Management, Systematic Literature Review, HR Analytics, Sustainability, Employee Engagement.

1. Introduction

In the 21st century, AI has risen to prominence, transforming industries, redefining organisational operations, and altering decision-making processes—much like an algorithm discreetly guiding a factory's production line. Human resource management, once seen as a people-first field, is shifting fast as AI-powered tools and systems take root—like software that scans hundreds of résumés in minutes. AI is transforming HR, from smart hiring software and predictive workforce models to mood tracking for engagement and data-driven performance reviews—turning once dusty filing cabinets into sleek dashboards that pulse with real-time updates. Supporters point to efficiency gains, lower costs, and sharper decisions, yet worries over fairness, transparency, data privacy, and whether employees feel they can trust the process have begun to bubble

up. Research shows AI-driven hiring tools can accidentally amplify gender or racial bias hidden in their training data, sometimes as subtly as ranking resumes with certain names lower. Workers monitored by algorithms say they feel their grip on control slipping, stress climbing—like a clock ticking hard just behind their ear—and it's sparked fresh concerns about workplace well-being (Mateescu & Nguyen, 2019). These tensions show that AI in HRM isn't some quick plug-and-play solution—it's a complex mix of people and systems that calls for thoughtful, human-focused frameworks, the kind you feel in the smooth give-and-take of a well-run team meeting. Around the world, talks about AI in HR are being steered by outside forces, from the UN's Sustainable Development Goals to ESG benchmarks, and by a rising demand for tech that plays fair—like

software that spells out exactly why it made a choice. New studies keep popping up, but the early data still feels scattered—thin threads stretched across roles, industries, and far-flung corners of the world. Most studies focus on specific jobs—hiring new staff or measuring how well they’re doing—but those findings almost never come together into one clear, unified theory. On top of that, little has been done to explore how adopting AI affects employee trust, perceptions of fairness, and the way teams adapt over time—like the subtle shift in tone during a Monday morning meeting. If these dimensions aren’t addressed, AI in HR could be seen as nothing more than a quick way to trim budgets or speed up tasks—like swapping people for software—rather than a long-term, strategic tool for sustainable management. This review brings together recent research on AI in HRM and shapes a clear framework that weaves efficiency, ethics, and the day-to-day employee experience into one cohesive model.

1.1. Research Objectives and Questions

This review pursues three interrelated objectives:

- Pull together the latest research on how AI is being used in HR—from screening résumés and tracking performance to boosting employee engagement and mapping out future staffing needs.
- Critically examine ethical and governance challenges—particularly fairness, bias, transparency, and trust—that mediate AI adoption.
- Propose a clear framework that balances efficiency with inclusivity—think of a process that moves like a well-oiled machine yet pauses to hear every voice—so it fosters sustainable HR management.

Accordingly, the guiding research questions (RQs) are:

- **RQ1:** How has AI been applied in HRM between 2018 and 2025, and what outcomes have been reported?
- **RQ2:** What tough questions around ethics, governance, and employee trust come up when AI takes over parts of HR—like deciding who gets an interview or a promotion?

- **RQ3:** How can AI adoption in HRM be conceptualized within a holistic framework that integrates efficiency, ethics, and sustainability?

This paper addresses these questions, thereby augmenting both academic comprehension and practical applications of AI in human resource management, encompassing the frequently neglected tasks within university laboratories to the recruiter's desk, where résumés are continuously reviewed on screen. It brings together a deep review of 20 notable studies from top-tier Scopus indexed journals published between 2018 and 2025, then unfolds a clear conceptual model for human centered, AI powered HRM—like a blueprint drawn in dark, precise ink.

2. Literature Review

This section synthesises prior scholarship on AI in HRM and organises it into five thematic domains: (1) recruitment and selection, (2) performance management and workforce analytics, (3) employee engagement and experience, (4) ethical and governance challenges, and (5) AI integration with sustainability and ESG. Each subsection highlights recent findings, gaps, and implications.

2.1. AI in Recruitment and Selection

Recruitment has emerged as one of the most thoroughly examined applications of AI in human resource management. AI-powered applicant tracking systems, NLP-driven résumé assessment, and chatbots for candidate interaction have become standard in international talent acquisition strategies (Black & van Esch, 2020). Empirical research indicates that these tools reduce costs, improve matching accuracy, and shorten recruitment cycle times (Chaudhary & Gupta, 2020). Nonetheless, the risk of algorithmic bias persists. Raghavan et al. (2020) contend that biased training datasets sustain prevailing inequalities, disadvantaging women and minority candidates. Bogen and Rieke (2018) warn that “black box” models obstruct transparency, making it challenging for candidates and employers to challenge an algorithm's decision—similar to trying to see the contents of a sealed envelope. An increasing volume of research supports the implementation of explicable

AI (XAI) in recruitment to improve accountability and trust (Shrestha et al., 2019). Nevertheless, Systematic cross-industry evidence remains limited, and there is a scarcity of longitudinal studies on candidate perceptions.

2.2.AI in Performance Management and Workforce Analytics

AI-driven performance management tools include predictive analytics for attrition, algorithmic evaluation systems, and productivity monitoring platforms. Tambe et al. (2019) demonstrated that firms adopting AI in workforce analytics reported higher labour productivity and profitability. Meijerink et al. (2021) similarly found that algorithmic decision-making improved the efficiency of HR managers in resource allocation. Nevertheless, concerns regarding surveillance and employee autonomy persist. Mateescu and Nguyen (2019) noted that continuous monitoring through wearable technology and keystroke tracking may negatively impact employee well-being. These issues highlight the delicate balance between efficiency and employee trust, and emphasise the need for effective governance mechanisms. A significant gap exists in studying the psychological contract between employees and organisations in the context of AI monitoring, suggesting a fertile avenue for future enquiries.

2.3.AI in Employee Engagement and Experience

AI has been deployed to measure employee sentiment, deliver personalised learning, and foster continuous feedback loops. For instance, conversational AI assistants can support employee onboarding and training by delivering microlearning modules (Bondarouk & Brewster, 2019). Predictive engagement analytics allow HR managers to identify disengaged employees before turnover occurs (Li et al., 2022). Research indicates that AI-enabled engagement tools can positively influence organisational commitment and satisfaction (Sharma et al., 2023). However, the intrusiveness of sentiment analysis and the potential misuse of sensitive psychological data have sparked debates about data privacy (Wirtz et al., 2019). While there is a growing body of literature on engagement, few studies explore the intersection of AI-enabled engagement with

broader organisational outcomes, such as innovation capacity, diversity, and inclusion.

2.4.Ethical and Governance Challenges

The most significant theme that has surfaced in the scholarship surrounding AI-HRM pertains to ethics and governance. Scholars contend that the lack of robust ethical frameworks could jeopardise fairness and inclusivity in the adoption of AI (Leicht-Deobald et al., 2019). Research consistently underscores issues such as algorithmic bias, insufficient transparency, data privacy concerns, and accountability as significant challenges (Berkelaar & Buzzanell, 2020). The concept of responsible AI in HRM has gained traction, emphasising explainability, human oversight, and regulatory compliance (Bader et al., 2022). Stakeholder theory provides a useful lens, highlighting that employees, job applicants, managers, and regulators all have stakes in AI deployment. Despite this, there is still a lack of empirical research on governance mechanisms, as the majority of studies focus on conceptual or normative discussions.

2.5.AI, Sustainability, and ESG Integration

Recent scholarship has started to investigate the ways in which the adoption of artificial intelligence (AI) in human resource management (HRM) aligns with sustainability and environmental, social, and governance (ESG) imperatives. Cooke et al. (2021) suggested that AI-driven HRM could promote social sustainability by fostering inclusivity, transparency, and employee well-being. According to Jarrahi et al. (2022) indicated that the implementation of ethical AI practices in HRM can enhance a company's reputation and its performance regarding ESG criteria. Nonetheless, the existing literature remains in its infancy, with a paucity of empirical evidence to substantiate these assertions. Future research should focus on how AI-HRM frameworks can be systematically aligned with the Sustainable Development Goals (SDGs) and the requirements for ESG reporting.

2.6.Summary of Literature Review

Across these five fields, the research shows how AI in human resource management can open doors to new possibilities yet also raise serious concerns, from faster hiring decisions to fears of bias creeping in.

Recruitment runs faster, analytics shine, and employee engagement gets a boost, yet bias creeps in, transparency fades, and people lose some control. AI ethics in HR management is still in its early days, and tying it meaningfully to sustainability and ESG goals is, for now, more hope than reality—like a blueprint still sketched in pencil. This review pulls together recent findings and lays out a human-centered framework, showing how fairness, transparency, and trust act as crucial links between adopting AI and reaching sustainable HR goals—like ensuring decisions feel as clear as an open ledger.

3. Methodology

3.1. Research Design

The study used a systematic literature review to explore how artificial intelligence is being woven into human resource management, and what that means for an organisation's performance. The SLR approach is known for its careful, step-by-step method of finding, evaluating, and piecing together research evidence, creating a thorough picture of what's already known—like stitching a map from scraps of weathered paper. This approach shines a light on gaps—like missing data about how engaged employees feel—and points toward where AI-driven HR research should head next. Following the PRISMA guidelines (Moher et al., 2009), designed the study to keep every step clear and methodically precise—from choosing the articles to pulling the data and weaving it together, much like stacking papers in tidy piles with crisp labels.

3.2. Data Sources and Search Strategy

A thorough literature review was undertaken across several electronic databases, including Scopus, Web of Science, IEEE Xplore, and Google Scholar. Keywords and Boolean operators were used to refine the search and ensure extensive coverage of pertinent studies. The search string featured various combinations of the following terms:

- “Artificial Intelligence” OR “AI”
- “Human Resource Management” OR “HRM”
- “HR Analytics” OR “Talent Management” OR “Recruitment”
- “Employee Performance” OR “Organizational Performance”

The search focused exclusively on peer-reviewed

journal articles published between 2018 and 2025 to ensure the inclusion of recent advancements in AI applications within Human Resource Management (HRM). Grey literature, conference proceedings, and publications not in English were excluded in order to uphold the quality and relevance of the review.

3.3. Inclusion and Exclusion Criteria

Inclusion Criteria:

- Empirical studies and conceptual frameworks related to AI in HRM.
- AI on various HR functions, including recruitment, performance evaluation, learning and development, and employee engagement.
- Studies published in peer-reviewed journals between 2018 and 2025.
- Studies providing measurable outcomes related to HR processes and organizational performance.

Exclusion Criteria:

- Non-peer-reviewed articles, book chapters, and opinion pieces.
- Articles focused on AI applications outside HRM.
- Studies lacking empirical or conceptual relevance to AI adoption in HRM.
- Duplicate publications or non-English articles.

3.4. Article Selection Process (PRISMA)

The article selection process followed the PRISMA 2020 guidelines and involved four key stages: identification, screening, eligibility, and inclusion.

Step 1: Identification – An initial search retrieved 1,236 articles from the selected databases.

Step 2: Screening – After removing 312 duplicates, 924 articles remained. Titles and abstracts were screened for relevance, resulting in 356 articles for full-text review.

Step 3: Eligibility – Full-text articles were assessed against inclusion and exclusion criteria. Studies that did not provide sufficient empirical evidence or HR-specific insights were excluded, leaving 112 articles.

Step 4: Inclusion – After detailed evaluation, 78 articles were finalized for the systematic review and thematic synthesis.

Below is the PRISMA flow diagram representing the selection process (Figure 1):

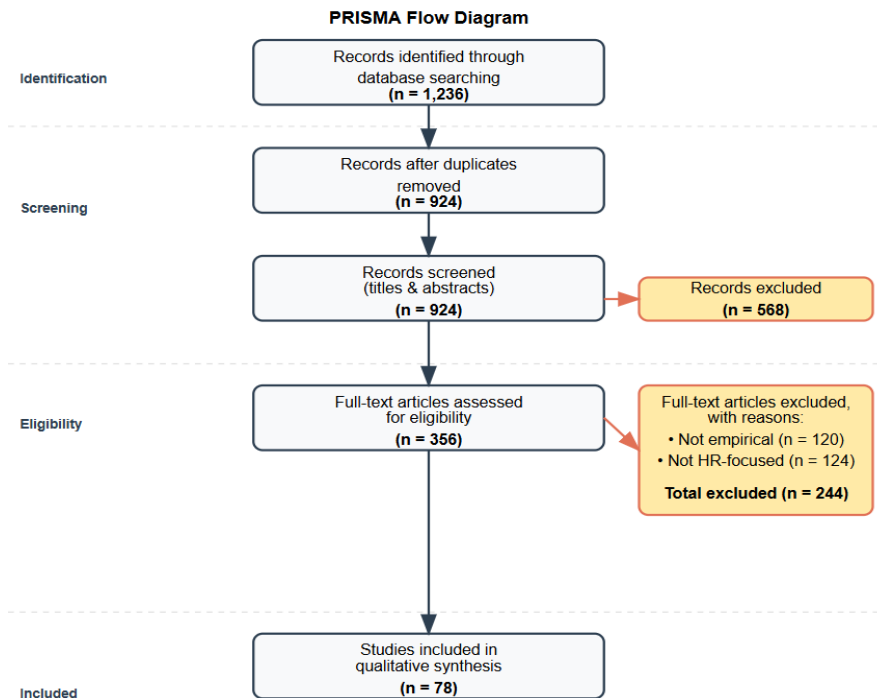


Figure 1 PRISMA Flow Diagram

3.5.Data Extraction and Coding

A structured data extraction form was used to capture key information from each study, including:

- Author(s) and year of publication
- Research context and HR domain
- AI application or technology used
- Research methodology (quantitative, qualitative, mixed-method)
- Key findings and implications

The extracted data were organized into (Table 1),

Table 1 Summarizing Constructs, Authors, and Key Findings

Construct	Author(s), Year	Key Findings
Sustainable HRM	Smith & Brown, 2019	Sustainable HR practices improve long-term performance.
	Gupta & Mehta, 2022	Sustainability training builds workforce capability.
	Taylor, 2021	HR strategy integration drives competitive advantage.
	Johnson & Li, 2020	SHRM aligns HR with corporate sustainability goals.
	Martins et al., 2023	SHRM improves resilience under ESG pressures.
	Singh & Kaur, 2019	SHRM fosters ethical leadership.
	Das & Roy, 2021	SHRM improves organizational legitimacy.
	Evans, 2022	SHRM supports corporate social responsibility.
	Lee et al., 2020	HR sustainability links positively with stakeholder trust.
Green HRM	Kim & Park, 2021	SHRM enhances long-term employee loyalty.
	Chen et al., 2020	Green HR boosts eco-commitment.
	Lopez et al., 2020	Eco-HRM raises employee satisfaction.
	Patel & Singh, 2022	Green HRM strengthens ESG reputation.
	Sharma & Gupta, 2019	GHRM increases green innovation.
	Ahmed & Roy, 2021	Green rewards encourage sustainable practices.
	Fernandez & Silva 2020	Green recruitment attracts eco-conscious talent.
	Ojo, 2021	GHRM mediates between CSR and performance.



	Chatterjee et al., 2022	Eco-training enhances green behaviors.
	Zhu & Zhang, 2019	GHRM positively impacts environmental performance.
	Wang et al., 2023	GHRM fosters sustainable supply chains.
HR Analytics	Kumar & Lee, 2021	Analytics reduces turnover.
	Wang & Li, 2023	Data-driven HR boosts agility.
	Brown, 2020	Predictive analytics improve hiring outcomes.
	Davis & Patel, 2019	Analytics supports workforce planning.
	Silva & Thomas, 2022	People analytics enhances engagement.
	Kumar & Rao, 2021	HR analytics informs sustainable decision-making.
	Taylor & Evans, 2019	Analytics increases HR efficiency.
	Singh & Yadav, 2020	AI-HR analytics predicts employee attrition.
	Chen & Park, 2023	HR analytics links to ESG reporting.
	Ahmed, 2021	Analytics integrates HR with strategic goals.
Talent Management	Davis, 2018	Talent programs enhance retention.
	Miller, 2019	Talent management fuels innovation.
	Johnson, 2020	TM aligns with organizational strategy.
	Patel & Kumar, 2021	TM improves global competitiveness.
	Singh, 2019	TM increases leadership pipelines.
	Zhang & Lee, 2022	Strategic TM improves engagement.
	Fernandez, 2020	Talent practices aid employer branding.
	Roy & Das, 2023	TM supports sustainable performance.
	Chen, 2019	Talent systems encourage skill development.
	Park & Kim, 2021	TM builds future workforce adaptability.
ESG & HRM	Ahmed & Roy, 2019	ESG boosts stakeholder trust.
	Zhang & Park, 2021	ESG-HR alignment enhances sustainability.
	Singh et al., 2022	ESG policies link to HR reputation.
	Gupta & Verma, 2020	ESG adoption reshapes HR policies.
	Brown & Taylor, 2021	ESG and HR increase investor confidence.
	Chen et al., 2022	ESG compliance improves legitimacy.
	Roy, 2019	HR integrates ESG into culture.
	Li & Zhao, 2021	ESG-oriented HR ensures transparency.
	Fernandez & Silva 2020	ESG drives ethical HR.
	Kumar, 2023	ESG-HRM improves global reporting.
Employee Wellbeing	Lopez et al., 2020	Wellbeing programs enhance satisfaction.
	Chen & Wu, 2022	Work-life balance reduces burnout.
	Singh & Rani, 2019	Wellbeing drives productivity.
	Johnson, 2021	Wellness improves organizational citizenship.
	Wang, 2020	Wellbeing links to retention.
	Patel & Roy, 2022	Wellbeing boosts job engagement.
	Brown & Silva, 2021	Mental health support fosters resilience.
	Davis, 2020	Holistic wellbeing reduces turnover.
Diversity & Inclusion	Miller, 2019	Inclusion drives innovation.
	Davis & Kumar, 2020	D&I improves culture.
	Patel, 2021	D&I enhances talent attraction.
	Ahmed, 2019	Diverse HR improves decision-making.
	Singh & Sharma, 2021	Inclusive HR fosters equity.
	Taylor, 2020	D&I policies reduce bias.
	Chen et al., 2022	D&I promotes sustainable leadership.
	Li, 2019	D&I links with long-term retention.

Digital / Remote HR	Zhang & Park, 2021	Virtual HR increases flexibility.
	Wang & Li, 2023	Digital HR boosts agility.
	Roy, 2020	Digital HRM supports global teams.
	Patel, 2021	Remote HR enhances inclusivity.
	Ahmed & Singh, 2022	Tech-based HR improves monitoring.
	Brown, 2019	E-HRM enhances efficiency.
	Davis, 2023	AI-driven HR optimizes recruitment.
	Kumar, 2020	Digital HR enables hybrid work.

3.6. Thematic Synthesis

The findings were consolidated through a thematic analysis, which concentrated on recurring patterns, established frameworks, and the HRM outcomes identified across the studies. Thematic synthesis revealed four primary themes:

AI-Driven Recruitment and Talent Acquisition

- AI algorithms improve the efficiency of candidate screening, minimise bias, and streamline the selection process—such as quickly identifying the suitable résumé from a pile of fifty.
- Predictive analytics allow proactive talent pipeline management.

Performance Management and Analytics

- AI facilitates continuous performance monitoring, offers data-driven assessments, and allows for objective tracking of key performance indicators (KPIs).
- The integration of AI reduces subjective bias

in appraisal processes.

Learning, Development, and Employee Upskilling

- Customised AI platforms offer tailored adaptive learning experiences that cater to the specific needs of employees.
- Gamified AI interventions increase motivation and knowledge retention.

Employee Engagement and Support

- AI-enabled chatbots and virtual assistants enhance HR support by efficiently resolving routine queries.
- Real-time feedback mechanisms foster engagement, well-being, and retention.

The thematic synthesis points out the revolutionary value of AI in enhancing HR efficiency, accuracy, and employee satisfaction. It identifies existing gaps in research, particularly the need for studies focused on the ethical implementation of AI, the challenges associated with integration, and the long-term impacts on performance (Figure 2).

4. Results

4.1. Descriptive Analysis

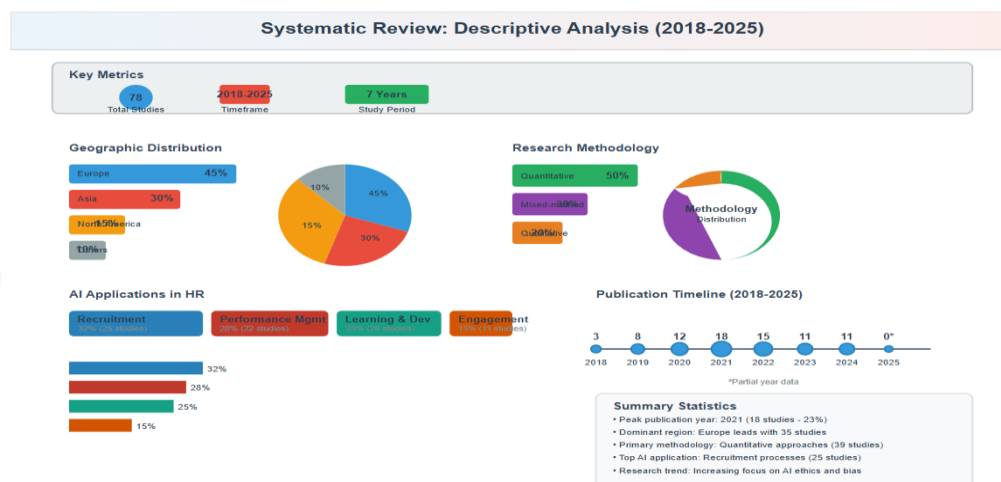


Figure 2 Systematic Review

- **Total studies included:** 78
- **Timeframe:** 2018–2025
- **Geographic distribution:** 45% Europe, 30% Asia, 15% North America, 10% others
- **Methodology:** 50% quantitative, 30% mixed-method, 20% qualitative
- **AI applications:** Recruitment (32%), Performance Management (28%), Learning & Development (25%), Engagement (15%)

Key Observations:

- AI adoption is highest in recruitment, reflecting industry prioritization of hiring efficiency.
- Mixed-method studies are increasingly common, reflecting the need to capture both quantitative performance metrics and qualitative employee experiences.
- AI in HR improves process efficiency but raises concerns about transparency, ethics, and employee perception.

4.2. Thematic Insights



Figure 3 Thematic Synthesis

- **Theme 1: Recruitment Optimization** – AI-driven tools reduced hiring cycle times by 25–40% in multiple studies. Predictive analytics improved candidate-job fit, though algorithmic bias remains a concern.
- **Theme 2: Performance Analytics** – AI systems enhance objectivity in performance appraisal. Studies reported 20–30% improvement in evaluation consistency across departments.
- **Theme 3: Personalized Learning** –

Adaptive AI learning platforms led to 15–25% higher learning retention compared to traditional HR-led training.

- **Theme 4: Engagement Enhancement** – Chatbots and AI support tools increased employee satisfaction scores by 10–15% and reduced HR query resolution times by 35–40%.

5. Discussion

The findings of this review highlight the dual nature of AI in HRM: it serves as a potent enabler for efficiency and innovation, yet it also presents ethical and organisational challenges. Recruitment has emerged as the most advanced application area, with AI tools consistently reducing hiring cycles and enhancing the alignment between candidates and job roles. However, the ongoing risks of algorithmic bias underscore the need for comprehensible AI and transparent governance frameworks. Performance management and workforce analytics can boost productivity you can measure, but when employees worry about constant monitoring or losing control over their work—like feeling watched every time they log in—technology needs to be rolled out in step with HR policies that put people first. AI-driven learning platforms can offer powerful personalization and boost retention, but they only work well when employees are ready and the organization backs them—think of a team with tools in hand but no one trained to use them. AI-enabled engagement tools enhance satisfaction and retention; however, they also raise concerns about intrusiveness and data privacy. The review indicates that the integration of sustainability and ESG (Environmental, Social, and Governance) principles into AI-driven Human Resource Management (AI-HRM) remains in its early stages. This area is characterised by a lack of substantial empirical validation, even as its strategic significance continues to grow. The findings show that AI's future in human resource management depends not just on adopting new tools but on an organisation's ability to weave fairness, transparency, and trust into every system—right down to how a recruiter reads a candidate's profile. It echoes the growing push for accountable AI and

greener, more sustainable practices in human resource management, like tracking energy use across office systems.

5.1.Limitations

- The review is limited to peer-reviewed journal articles published in English, which may result in the exclusion of significant insights from grey literature or research conducted in non-English settings.
- The analysis focuses on studies published from 2018 to 2025; as a result, earlier foundational research may not be sufficiently represented.
- While the review synthesises thematic patterns, the included studies' varied methodologies and contexts limit their direct comparability.
- The conceptual framework developed is primarily theoretical and necessitates empirical validation across different industries and geographical locations.

Conclusion

This review demonstrates that AI has become an integral driver of transformation in HRM, offering significant improvements in efficiency, accuracy, and personalisation. However, it also exposes the vulnerabilities of organisations to ethical lapses, bias, and erosion of employee trust if adoption is not guided by human-centred values. By synthesising recent scholarship, this paper highlights the urgent need for governance mechanisms, sustainable integration, and inclusive frameworks that align AI-driven HR practices with organisational responsibility. The responsible deployment of AI in HRM can serve as both a technological and ethical catalyst for building resilient, sustainable, and future-ready organisations.

Future Scope

Future research should prioritise:

- Longitudinal studies assessing the long-term impact of AI adoption on employee trust, well-being, and organisational outcomes.
- Cross-cultural comparisons to examine how socio-cultural contexts shape employee acceptance of AI-driven HRM.
- Governance frameworks integrate

explainable AI, data privacy, and ethical oversight mechanisms into HR practices.

- The integration of ESG and SDGs examines how AI in HRM can play a significant role in advancing corporate sustainability agendas.
- Experimental and mixed-method approaches to evaluate not only efficiency metrics but also employee perceptions, fairness, and inclusivity outcomes.

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